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The initial effort on this project has been concentrated on the assembly of a breadboard layout of the system shown in the proposal. Audio band-limiting filters and wide-band, phase-shift networks have been purchased, as have analog operational amplifiers for use as integrators.

Analog multipliers of the diode ring type have been constructed from selected diodes, and input transformers have been designed and constructed for this application. The operation of these circuits appears satisfactory. Impedance-matching amplifiers for use in conjunction with the phase-shift networks are also being constructed.

An acoustic delay line is being fabricated from metal tubing. This will be used to study the effect of fixed, reflection-free delays in one channel of the correlator and to prepare two-channel tape recordings for use as repeatable source material.

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R. H. Wilcox: Use of a Diode Ring as a Four-Quadrant Multiplier; Review of Scientific Instruments, November 1959, pp. 1009-1011. CONFIDENTIAL